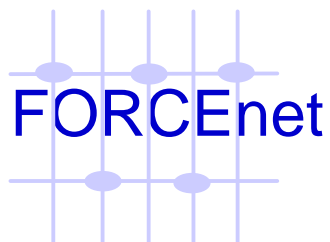
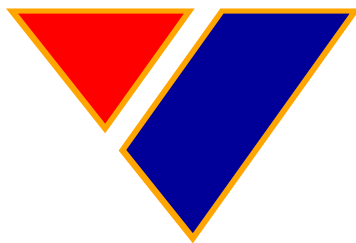


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FORCEnet Architecture

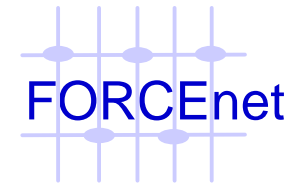
Briefing to
National Defense Industrial
Association (NDIA) Conference

October 23 2003

RDML Dave Antanitus
SPAWAR
Chief Engineer
david.antanitus@navy.mil



What Is FORCEnet?

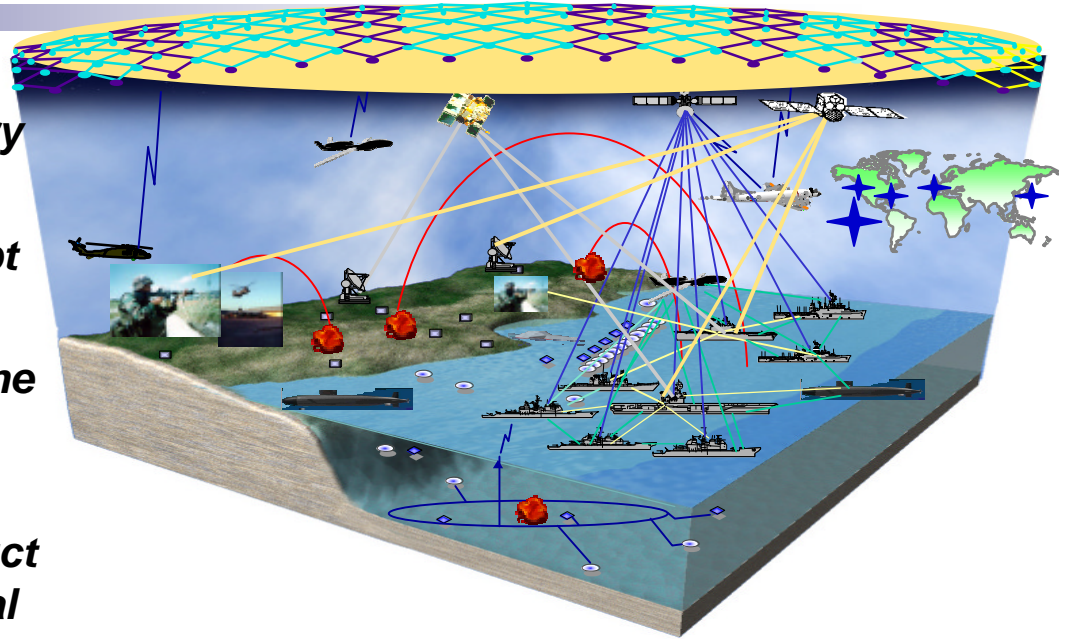


Network Centric Warfare Is the Theory

Net-centric Operations Is the Concept

FORCEnet Is the Process of Making the Theory and Concept a Reality

“FORCEnet is the operational construct and architectural framework for Naval Warfare in the Information Age which integrates Warriors, sensors, networks, command and control, platforms and weapons into a networked, distributed combat force, scalable across the spectrum of conflict from seabed to space and sea to land.”*

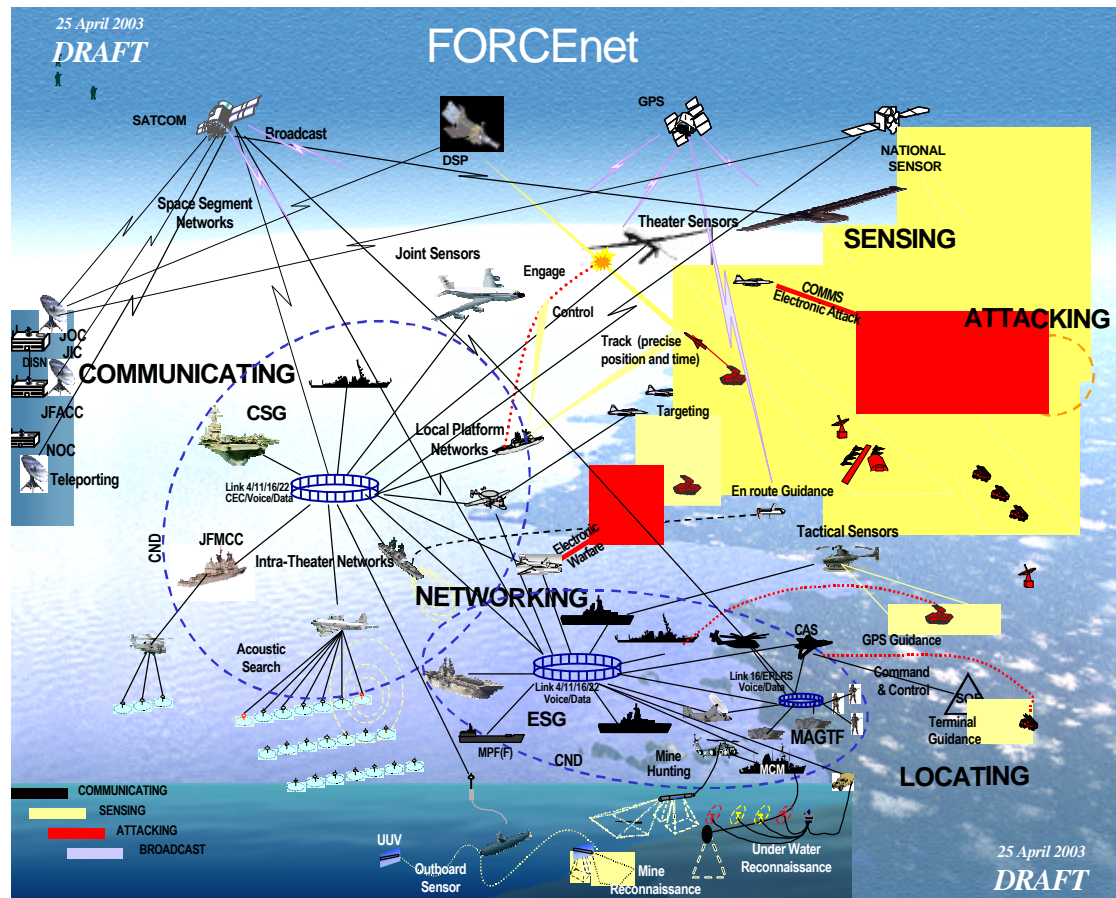
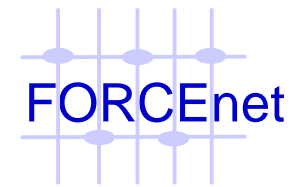


- FORCEnet Is Not
 - A Program of Record
 - A Redundant Effort
 - A Box or System
 - Just a Network

*CNO's Strategic Study Group - XXI definition from 22 July 02 CNO Briefing



Warfighting in the 21st Century

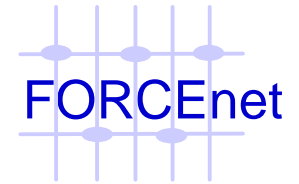


- Exploit Every Source – Leverage What We Have
- Provide Shared Situation Awareness/ Understanding
- Support Dominant Speed of Command
- Permit Precise, Synchronized Execution
- Allow Agility and Flexibility

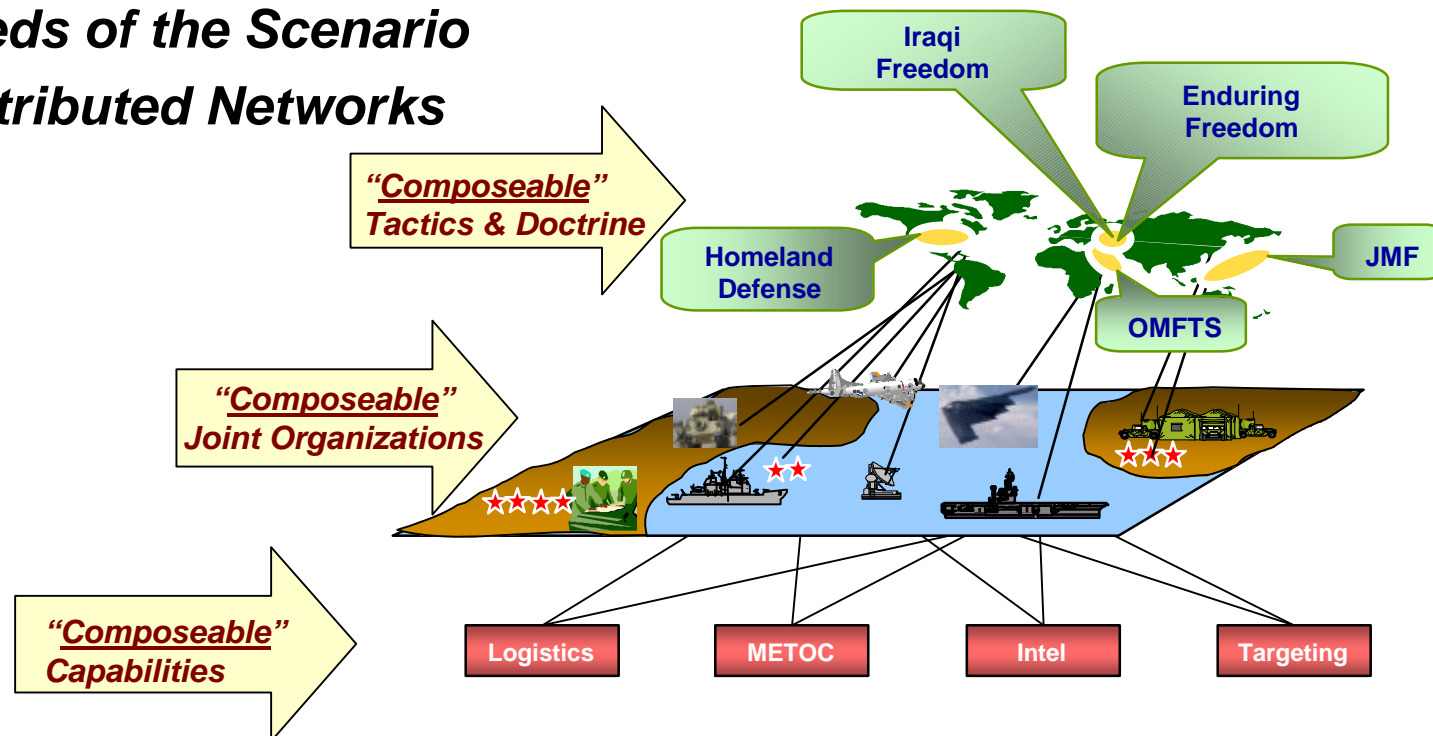
Dynamic Force Composition



Distributed Services Provides Composeable Capabilities

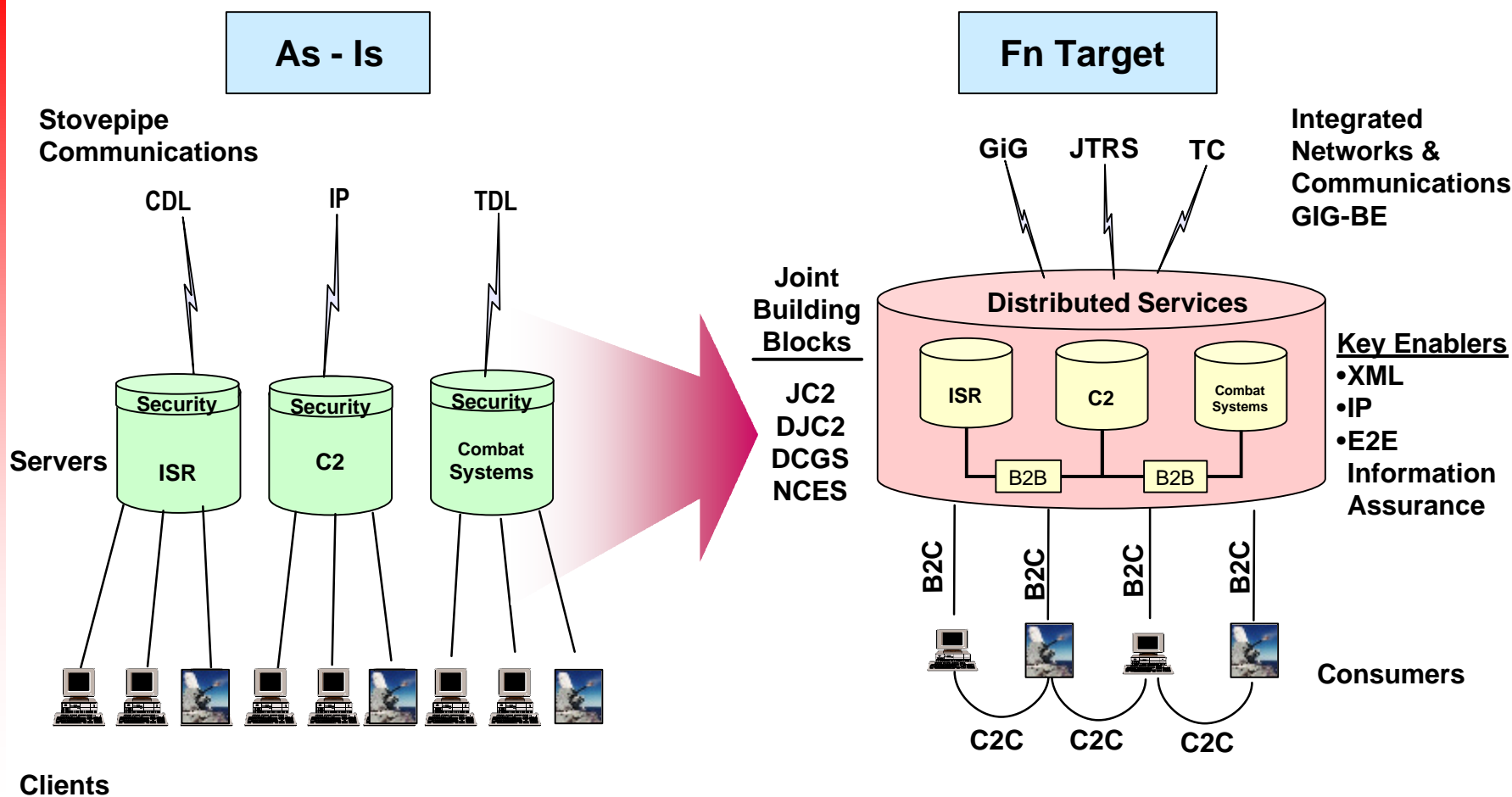
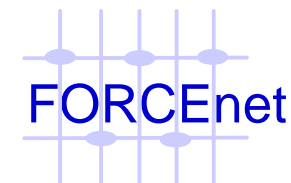


- ***“Composeability” -- The Ability to Select “On the Fly” From a Vast Network, the Specific Information Resources Which Are Best Suited to Solving a Particular Problem or Providing Specific Information***
- ***“On the Fly” -- Sources Will Change With the Information Needs of the Scenario***
- ***Distributed Networks***





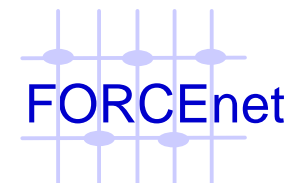
Push to a Common Environment



B2B = Business to Business
B2C = Business to Consumer
C2C = Consumer to Consumer
(Enabling Publish/Subscribe Solutions)



Born Joint and Built on Distributed Services



XTCF

DISA/ONR COP Re-design



DJC2

C2 Functions

DCGS Today and Future

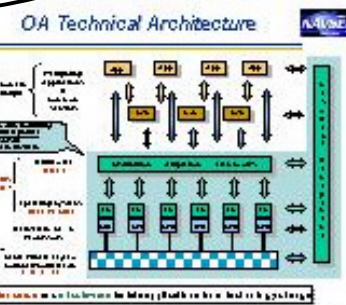
DCGS

ISR Functions



NCCT

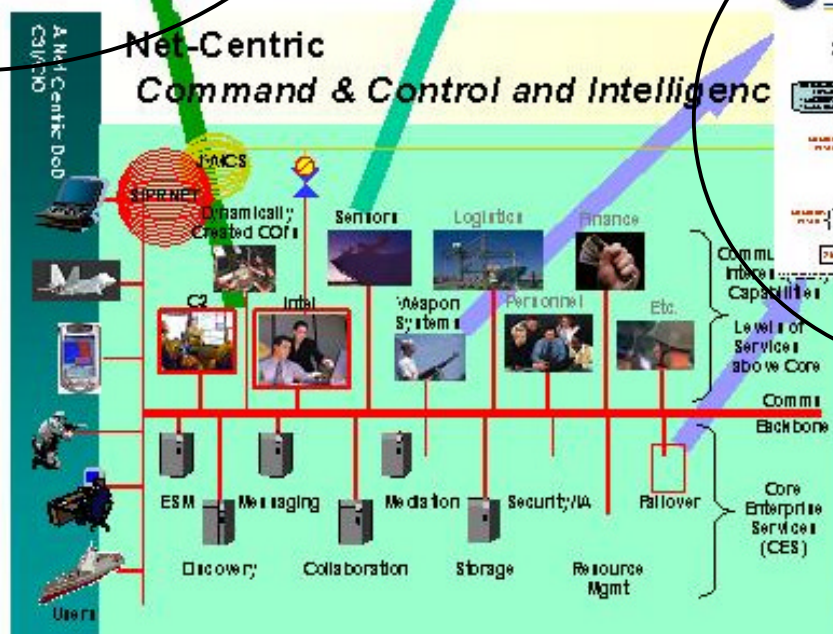
OA



Combat Systems Functions

NCES

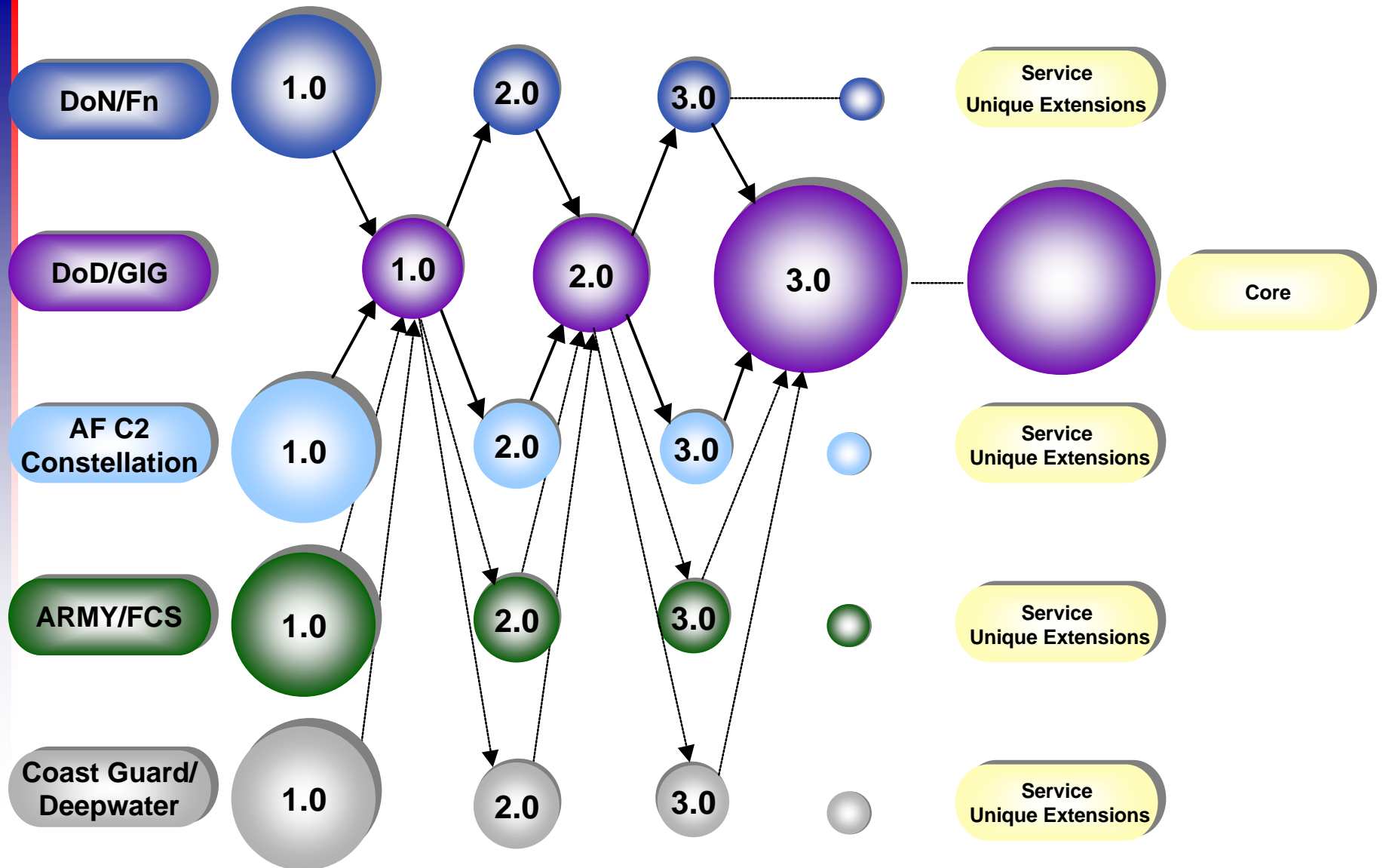
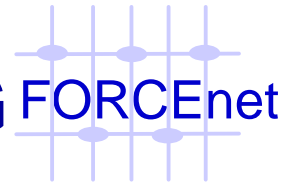
Distributed Services



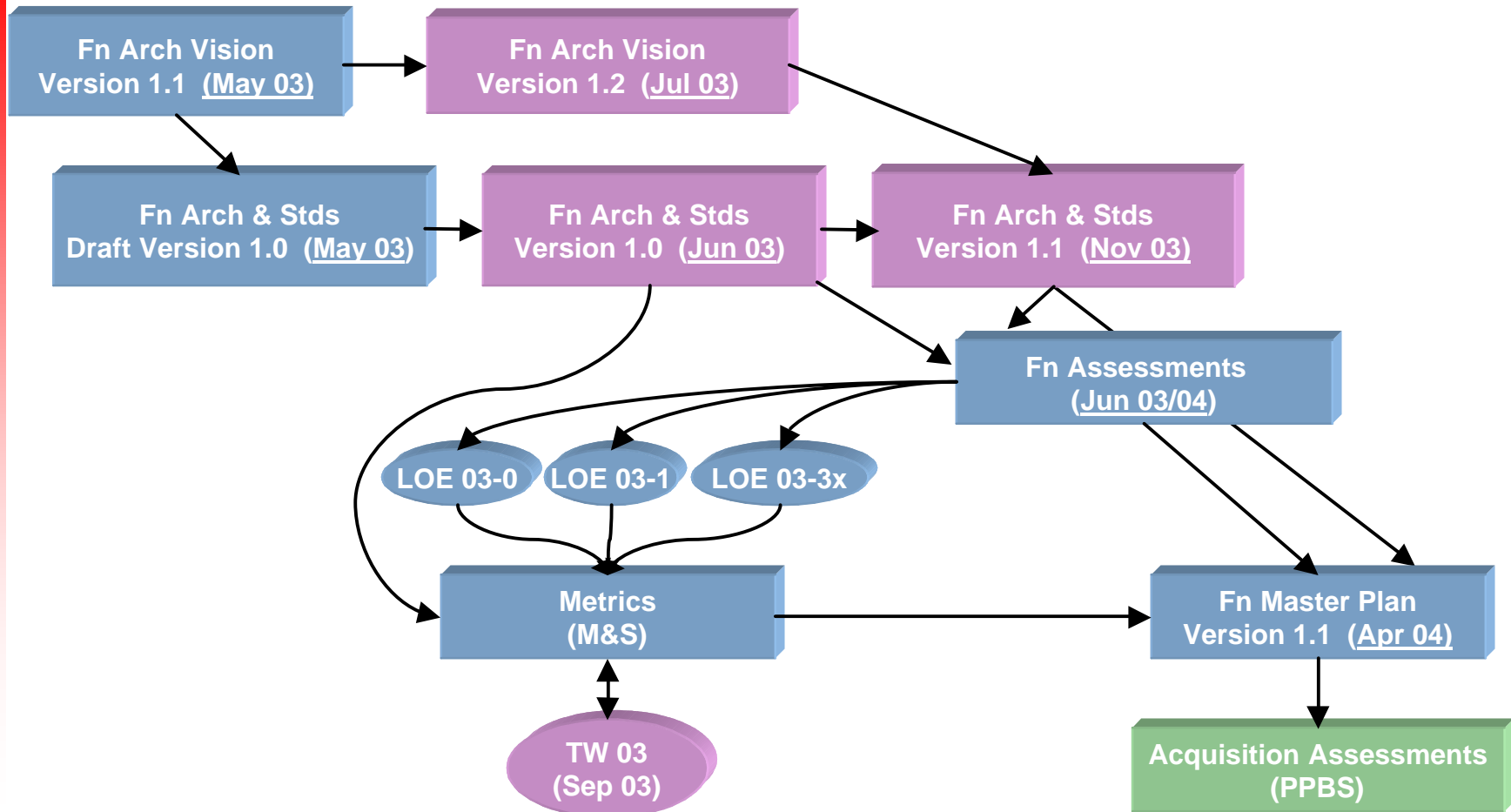
DJC2 – Distributed Joint C2
 GIG ES – Global Information Grid Enterprise Services
 NCES – Network-Centric Enterprise Services
 NCCT – Network-Centric Collaborative Targeting
 OA – Open Architecture
 XTCF – eXtensible Tactical C4I Framework



FORCEnet Convergence with GIG



Putting It All Together



Co-Evolution of Concepts, Architecture, Experiments and POR Execution

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